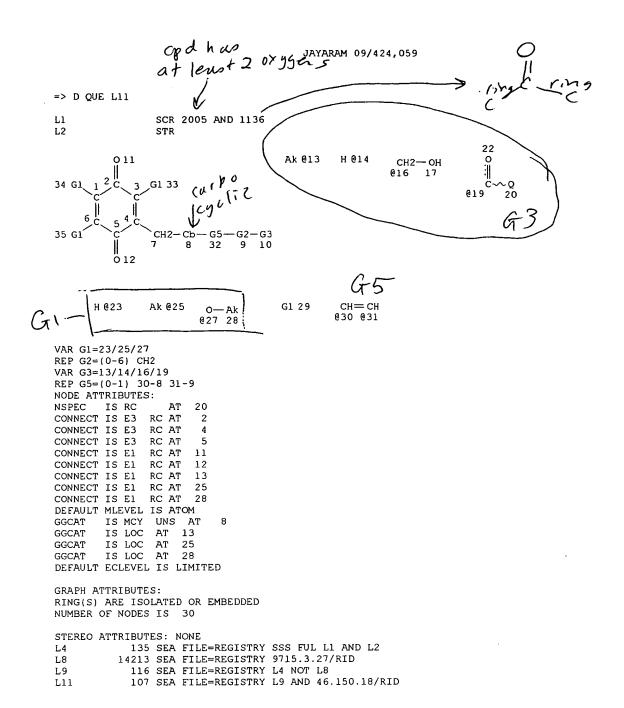
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     FILE 'REGISTRY' ENTERED AT 13:29:35 ON 03 APR 2000
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              5 SEA FILE=REGISTRY SSS SAM L1 AND L2
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     FILE 'REGISTRY' ENTERED AT 13:41:20 ON 03 APR 2000
L13
            248 S E1-248
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     FILE 'HCAPLUS' ENTERED AT 13:41:57 ON 03 APR 2000
L14
             1 S L13 AND L12
L15
             30 S L11
                                29 cites after subtracting out Apple work
             29 S L15 NOT L14
L16
     FILE 'CAOLD' ENTERED AT 13:47:57 ON 03 APR 2000
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            4 S L11
                          4 cites
     FILE 'BEILSTEIN' ENTERED AT 13:49:28 ON 03 APR 2000
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             6 S L11 FULL
             31 S L20 AND PRE/FA 31 cites to tal (5 ome are dry (52 ated)
55 S SUZUKI. K?/AII AND TATELLOWA TO (50)
             43 S L2 FULL
L19
L20
L21
L22
             55 S SUZUKI, K?/AU AND TATSUOKA, T?/AU AND ISHIHARA, T?/AU AND OG
             55 S L22 AND PY=1997
L23
L24
             29 S L20 NOT L23
             45 S SUZUKI, K?/AU AND TATSUOKA, T?/AU AND MURAKAMI, T?/AU AND ISH
L26
             23 S L24 AND PRE/FA
             20 S L26 NOT L25
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L28
             20 S L27 AND PRE/FA
             71 S MORI, A?/AU AND GOTO, Y?/AU AND TAKESHITA, H?/AU
L29
             36 S L29 AND PY=1987
L30
L31
             19 S L28 NOT L30
L32
             19 S L31 AND PRE/FA
            267 S CITTERIO, A?/AU AND PY=1980
Ľ33
             16 S L32 NOT L33
L34
             16 S L34 AND PRE/FA
L35
             28 S ALBINI, A?/AU AND SPRETI, S?/AU AND PY=1986
L37
             15 S L35 NOT L36
             15 S L37 AND PRE/FA
L38
            142 S NAGATA, T?/AU AND PY=1991
L39
              7 S L38 NOT L39
L40
L41
             7 S L40 AND PRE/FA
             41 S LINDSEY, ?/AU AND PY=1962
L42
L43
              5 S L41 NOT L42
L44
              5 S L43 AND PRE/FA
              5 S L44 NOT L42
: L45
L46
              O S RUEGHEIMER, H?/AU AND PY=1896
                              SEARCHED BY SUSAN HANLEY 305-4053
                                                                                          Page 1
the high lighted LHI's show the 1st hitstr for a reference
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L47	233 S	RUEGHEIMER?/AU
L48	29 S	L47 AND PY=1896
L49	4 S	L45 NOT L48
VL5:0▲	4 S	L49 AND PRE/FA
L51	131 S	LINDSEY?/AU AND PY=1962
452	3 S	L50 NOT L51



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L16 ANSWER 1 OF 29 HCAPLUS COPYRIGHT 2000 ACS

ΑN 1999:581371 HCAPLUS

ÐΝ 132:1354

Biomimetic degradation of lignin and lignin model compounds by synthetic ΤI anionic and cationic water soluble manganese and iron porphyrins

Crestini, C.; Saladino, R.; Tagliatesta, P.; Boschi, T.

CS Dipartimento di Scienze e Tecnologie Chimiche, Universita di Tor Vergata, Rome, 00133, Italy

SQ Bioorg. Med. Chem. (1999), 7(9), 1897-1905 CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DТ Journal

LA English

The biomimetic oxidn. of 5-5' condensed and diphenylmethane lignin model compds. with several water sol. anionic and cationic iron and manganese porphyrins in the presence of hydrogen peroxide is reported. The oxidative efficiency of manganese and iron meso-tetra(2,6-dichloro-3sulfonatophenyl) porphyrin chloride (TDCSPPMnCl and TDCSPPFeCl, resp.), meso-tetra-3-sulfonatophenyl porphyrin chloride (TSPPMnCl) and manganese meso-tetra(N-methylpyridinio)porphyrin pentaacetate (TPyMePMn(CH3COO)5) was compared on the basis of the oxidn. extent of the models tested. Manganese porphyrins were found more effective in degrading lignin substructures than iron ones. Among them the cationic TPyMePMn(CH3COO)5, never used before in lignin oxidn., showed to be the best catalyst. The catalytic activity of porphyrins in hydrogen peroxide oxidn. of residual kraft lignin was also investigated. The use of quant. 31P NMR allowed the focusing on the occurrence of different degradative pathways depending on the catalyst used. TPyMePMn(CH3COO)5 was able to perform the most extensive degrdn. of the lignin structure, as demonstrated by the decrease of aliph. hydroxyl groups and carboxylic acids. Noteworthy, no significant condensation reactions occurred during manganese porphyrins catalyzed oxidns. of residual kraft lignin, while in the presence of iron porphyrins a substantial increase of condensed substructures was detected. 215875-59-5

RL: MFM (Metabolic formation); PRP (Properties); BIOL (Biological study); FORM (Formation, nonpreparative)

(biomimetic degrdn. of lignin and lignin model compds. by synthetic anionic and cationic water sol. manganese and iron porphyrins)

RN 215875-59-5 HCAPLUS

2,5-Cyclohexadiene-1,4-dione, 3-[(2,3-dimethoxy-5-methylphenyl)methyl]-2methoxy-5-methyl- (9CI) (CA INDEX NAME)

L16 ANSWER 2 OF 29 HCAPLUS COPYRIGHT 2000 ACS AN 1999:235537 HCAPLUS

131:25641

TΙ Electron transfer in porphyrin multimolecular self-organized nanostructures

Zenkevich, Eduard I.; Bachilo, Sergei M.; Shulga, Alexander M.; Rempel, Ulrich; Willert, Andreas; Von Borczyskowski, Christian

Institute of Molecular and Atomic Physics, Acad. Sci. of Belarus, Minsk, CS 220072, Belarus

Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A (1998), 324, 169-176 CODEN: MCLCE9; ISSN: 1058-725X

Gordon & Breach Science Publishers PR

ÐΤ Journal

LA English

AB On the base of covalent and noncovalent bonds nanoscale self-assembling multiporphyrin arrays with well-defined geometry, the controllable no. of interacting components and their spectral and photophys. properties were formed. Deactivation of excited singlet and triplet states was studied of multicomponent systems of Zn-octaethylporphyrin dimer with a Ph spacer covalently linked to various electron acceptors (benzoquinone or pyromellitimide) and/or self-assembled with tetrapyrrolic extra-ligands. The competition between the nonradiative energy transfer (within .ltoreq.10 ps) and charge transfer (within 300 fs - 700 ps) processes in the systems depends on the structure, spectral and redox properties of interacting subunits and may be driven by the distance, temp. and solvent polarity. The possible pathways and mechanisms of the electron transfer in the systems of various types are discussed (Marcus theory for the normal region and the nonadiabatic case, the superexchange mechanism).

IT 206270-68-0 206270-69-1

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(photoinduced electron transfer and fluorescence quenching in self-assembling multiporphyrin arrays)

RN 206270-68-0 HCAPLUS

CN Zinc, [.mu.-[2-[[4-[2,3,7,8,12,13,17,18-octaethyl-15-[4-(2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphin-5-yl-

kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24)phenyl]-21H,23H-porphin-5-ylkappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]phenyl]methyl]-2,5cyclohexadiene-1,4-dionato(4-)]]di- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

N 206270-69-1 HCAPLUS

PAGE 2-B

- ANSWER 3 OF 29 HCAPLUS COPYRIGHT 2000 ACS 1998:653250 HCAPLUS L16
- AN
- DN 130:15031
- ΤI Oxidative degradation of kraft lignin model compounds by anionic and cationic porphyrins
- Crestini, Claudia; Saladino, Raffaele; Giovannozzi-Sermanni, Giovanni; ΑU SEARCHED BY SUSAN HANLEY 305-4053

Tagliatesta, Pietro; Boschi, Tristano

- CS Agrobiology and Agrochemistry Department, University of Tuscia, Viterbo, 01100, Italy
- SO Adv. Lignocellul. Chem. Ecol. Friendly Pulping Bleaching Technol., Eur. Workshop Lignocellul. Pulp, 5th (1998), 277-280 Publisher: University of Aveiro, Aveiro, Port. CODEN: 66T2AG
- DT Conference
- LA English
- AB The biomimetic oxidn. of 5-5' condensed and diphenylmethane lignin model compds. with several water sol. anionic and cationic iron and manganese porphyrins in the presence of hydrogen peroxide is reported. The oxidative efficiency of manganese and iron meso-tetra(2,6-dichloro-3-sulfonatophenyl)porphyrin chlorides (TDCSPPMnCl and TDCSPPFeCl), manganese meso-tetra(3-sulfonatophenyl)porphyrin chlorides, (TSPPMnCl), meso-tetra(N-methylpyridinio)porphyrin manganese pentaacetate (TPyMePMnAc5) were compared on the basis of the oxidn. extent of the models tested. Anionic and cationic water sol. manganese porphyrins were found more effective in degrading kraft lignin and lignin substructures than iron porphyrins. Among Mn porphyrins the cationic TPyMePMnAc5, never used before in lignin oxidn., showed to be the most efficient catalyst.

 IT 215875-59-5P
- RL: SPN (Synthetic preparation); PREP (Preparation) (oxidative degrdn. of kraft lignin model compds. by anionic and cationic porphyrins)
- RN 215875-59-5 HCAPLUS
- CN 2,5-Cyclohexadiene-1,4-dione, 3-[(2,3-dimethoxy-5-methylphenyl)methyl]-2methoxy-5-methyl- (9CI) (CA INDEX NAME)

- L16 ANSWER 4 OF 29 HCAPLUS COPYRIGHT 2000 ACS
- AN 1998:194003 HCAPLUS
- DN 128:301466
- TI Energy and charge transfer dynamics in self-organized multimolecular arrays
- AU Zenkevich, E. I.; Shulga, A. M.; Bachilo, S. M.; Rempel, U.; von Richthofen, J.; von Borczyskowski, Ch.
- CS Institute of Molecular and Atomic Physics, Belarus Academy of Sciences, Minsk, 220072, Belarus
- SO J. Lumin. (1998), 76&77, 354-358 CODEN: JLUMA8; ISSN: 0022-2313
- PB Elsevier Science B.V.
- DT Journal
- LA English
- AB The main kinetic parameters of the nonradiative singlet-singlet energy transfer and the charge sepn. were studied for well-defined supramol. arrays with controllable no. and photophys. properties of subunits in methylcyclohexane at 77-300 K (cw, picosecond time-resolved fluorescence spectroscopy and femtosecond pump-probe kinetic data). The arrays formation is based on covalently linked Zn-porphyrin dimers with or without electron acceptors (quinone, anthraquinone, pyromellitimide) and the noncovalent self-assembling with pyridyl substituted tetrapyrrolic extra-ligands (porphyrins, chlorins and tetrahydroporphyrins, fluorinated tetraphenylporphyrins). The competition between the energy transfer (within .ltoreq.10 ps) and charge transfer (within 300 fs-700 ps) processes in the systems under consideration depends on the structure, spectral and redox properties of interacting subunits and may be driven by the distance, temp. and solvent polarity. The possible mechanisms of the excited S-states quenching in the complexes (including 'superexchange'

model) are discussed.

IT 206270-68-0 206270-69-1

RL: OCU (Occurrence, unclassified); PEP (Physical, engineering or chemical process); PRP (Properties); OCCU (Occurrence); PROC (Process) (energy and charge transfer dynamics in self-organized multimol. arrays)

RN 206270-68-0 HCAPLUS

Zinc, [.mu.-[2-[[4-[2,3,7,8,12,13,17,18-octaethyl-15-[4-[2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphin-5-yl-[2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphin-5-yl-kappa.N21, kappa.N22, kappa.N23, kappa.N24)phenyl]-21H,23H-porphin-5-yl-kappa.N21, kappa.N22, kappa.N23, kappa.N24]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(4-)]]di- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 206270-69-1 HCAPLUS
CN Zinc, [.mu.-[5,15-diphenyl-10,20-di(3-pyridinyl-.kappa.N)-21H,23H-porphine]][.mu.-[2-[[4-[2,3,7,8,12,13,17,18-octaethyl-15-[4-[2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphin-5-yl-(2,3,7,8,12,13,17,18-octaethyl-21H,23H-porphin-5-yl-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]phenyl]-21H,23H-porphin-5-yl-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]phenyl]methyl]-2,5-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]phenyl]methyl]-2,5-.cyclohexadiene-1,4-dionato(4-)]]di- (9CI) (CA INDEX NAME)

PAGE 2-B

L16 ANSWER 5 OF 29 HCAPLUS COPYRIGHT 2000 ACS AN 1997:271236 HCAPLUS

DN 127:4973

2-Arylmethyl-1,4-benzoquinones. II. Novel inhibitors of platelet ΤI

aggregation: synthesis and pharmacological evaluation Suzuki, Kenji; Tatsuoka, Toshio; Ishihara, Takafumi; Ogino, Ryoko; ΑU SEARCHED BY SUSAN HANLEY 305-4053

Miyazaki, Tomoko; Satoh, Fumio; Miyano, Seiji; Sumoto, Kunihiro Suntory Inst. Biomedical Res., Osaka, 618, Japan

cs

Chem. Pharm. Bull. (1997), 45(4), 668-674 SO

CODEN: CPBTAL; ISSN: 0009-2363 Pharmaceutical Society of Japan

DΤ Journal

LA English

GΙ

Two new series of 2-arylmethyl-1,4-benzoquinones I (R = Me, X = OCH2CO2H, OCH2CO2Et, OCH2COR1, Y = H, OCH2CO2H, OCH2CO2Et, OCH2COR1, R1 = morpholino; R = OMe, X = OCH2CO2H, OCH2CO2Et, H, <math>Y = H, OCH2CO2H, OCH2CO2Et, R1 = morpholino), II (Y = CO2Et, CONMe2, COR1, R1 = morpholino, thiazino), and III (Y = CO2Et, COR1, R1 = morpholino) were synthesized for evaluation of their pharmacol. activities. These compds. showed significant inhibition of platelet aggregation and some of them possessed a protective effect against endothelial cell injury. Structure-activity relationship studies indicated that I (R = Me, X = OCH2CO2Et, Y = H; R = Me, X = H, Y = OCH2CO2H) and II (Y = COR1, R1 = morpholino) (IV) are potent inhibitors of platelet aggregation induced by arachidonic acid (AA) with an IC50 in the range of 1-10 .mu.g/mL. Among them, IV showed a significant inhibitory activity against endothelial cell injury caused by hydrogen peroxide (H2O2) at 1 .mu.M.

146476-02-0P 146476-03-1P 146476-05-3P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(prepn. and platelet aggregation inhibitory activity of (arylmethyl)benzoquinones)

RN 146476-02-0 HCAPLUS

Acetic acid, [4-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1-CN yl)methyl]phenoxy)-, ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} \\ \\ \text{Me} \\ \\ \text{O} \end{array} \begin{array}{c} \text{CH}_2 \\ \\ \text{O} \\ \\ \text{O} \end{array} \begin{array}{c} \text{O} \\ \\ \text{II} \\ \\ \text{C} \\ \text{O} \end{array} \begin{array}{c} \text{OEt} \\ \\ \text{O} \\ \\ \text{O} \end{array}$$

146476-03-1 HCAPLUS

Acetic acid, [3-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]phenoxy}-, ethyl ester (9CI) (CA INDEX NAME)

146476-05-3 HCAPLUS RN

Acetic acid, [4-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1-CN yl)methyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

146475-92-5P IT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and platelet aggregation inhibitory activity of (arylmethyl)benzoquinones)

RN

146475-92-5 HCAPLUS
Acetic acid, [4-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{O} & \text{CH}_2 \\ \hline \\ \text{Me} & \text{O-CH}_2\text{-C-OBu-t} \end{array}$$

ΙT 146476-08-6P 146476-09-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and platelet aggregation inhibitory activity of (arylmethyl)benzoquinones)

RN

146476-08-6 HCAPLUS
Acetic acid, [3-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN 146476-09-7 HCAPLUS

Acetic acid, [4-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 6 OF 29 HCAPLUS COPYRIGHT 2000 ACS 1996:726795 HCAPLUS AN 126:124603 The small reorganization energy of C60 in electron transfer TΙ Imahori, Hiroshi; Hagiwara, Kiyoshi; Akiyama, Tsuyoshi; Aoki, Masanori; Taniguchi, Seiji; Okada, Tadashi; Shirakawa, Masahiro; Sakata, Yoshiteru The Institute of Scientific and Industrial Research, Osaka University, Mihoga-oka, Ibaraki, Osaka, 567, Japan Chem. Phys. Lett. (1996), 263(3,4), 545-550 SO CODEN: CHPLBC; ISSN: 0009-2614 PΒ Elsevier Journal DΤ English LA Porphyrin-linked fullerene 1 and porphyrin-linked quinone 2 have been designed and synthesized to evaluate the size and shape effect of fullerene in electron transfer. For evaluation of such an effect C60 and benzoquinone with comparable redn. potentials have been chosen and linked with a porphyrin, where a relatively rigid spacer ensures similar sepn. distance and nature of the intervening bonds between the redox pair. Accelerated charge sepn. and decelerated charge recombination were obsd. in 1 compared with 2 by picosecond fluorescence lifetime measurements and time-resolved transient absorption spectroscopy. They may be explained by the smaller reorganization energy in C60 compared with those in small acceptors. 182575-59-3 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process) (small reorganization energy of C60 in photoinduced electron transfer of porphyrin-linked fullerene and porphyrin-linked quinone) 182575-59-3 HCAPLUS RN Zinc, [4-[(3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]-N-[4-[10,15,20-

tris[3,5-bis(1,1-dimethylethyl)phenyl]-21H,23H-porphin-5-yl-

(SP-4-2)- (9CI) (CA INDEX NAME)

.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]phenyl]benzamidato(2-)]-,

PAGE 2-A

- L16 ANSWER 7 OF 29 HCAPLUS COPYRIGHT 2000 ACS
- AN 1996:570720 HCAPLUS
- DN 125:291542
- TI Synthesis and photophysical properties of porphyrin-linked C60 dyads
- AU Imahori, Hiroshi; Aoki, Masanori; Akiyama, Tsuyoshi; Sakata, Yoshiteru; Hagiwara, Kiyoshi; Okada, Tadashi
- CS Inst. Scientific Indus. Res., Osaka Univ., Osaka, 567, Japan
- SO Proc. Electrochem. Soc. (1996), 96-10(Recent Advances in the Chemistry and Physics of Fullerenes and Related Materials, Vol. 3), 332-341 CODEN: PESODO; ISSN: 0161-6374
- DT Journal
- LA English
- AB C60 was covalently linked to the mesophenyl ring of zinc tetraarylporphyrin at para, meta, and ortho positions with amido groups to elucidate intramol. photophys. properties of porphyrin-C60 linked systems. Irresp. of the linking mode between the two chromophores, photoinduced charge sepn. (CS) and subsequent charge recombination (CR) were obsd. in zincporphyrin-C60 dyads by picosecond fluorescence lifetime measurements and time-resolved transient absorption spectroscopy. Zincporphyrin-linked quinone also was designed and synthesized to evaluate the size effect of

SEARCHED BY SUSAN HANLEY 305-4053

fullerene in electron transfer (ET). Accelerated CS and decelerated CR were obsd. in zincporphyrin-C60 dyads compared with the corresponding porphyrin-linked quinone. The result is explained by the smaller reorganization energy in C60 compared with that in benzoquinone. 182575-59-3

RL: PRP (Properties)

(free energy and kinetics of electron transfer)

RN 182575-59-3 HCAPLUS

ΙT

Zinc, [4-[(3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]-N-[4-[10,15,20-tris[3,5-bis(1,1-dimethylethyl)phenyl]-21H,23H-porphin-5-yl-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24]phenyl]benzamidato(2-)]-,(SP-4-2)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

- L16 ANSWER 8 OF 29 HCAPLUS COPYRIGHT 2000 ACS
- AN 1996:80389 HCAPLUS
- DN 124:231983
- TI 2-Arylmethyl-1,4-benzoquinones. I. Novel inhibitors of platelet
 - aggregation: synthesis and pharmacological evaluation
- AU Suzuki, Kenji; Tatsuoka, Toshio; Murakami, Tomiko; Ishihara, Takafumi; Aisaka, Kazuo; Inoue, Teruyoshi; Ogino, Ryoko; Kuroki, Manami; Miyazaki, SEARCHED BY SUSAN HANLEY 305-4053

Tomoko; et al. Suntory Inst. for Biomedical Research, Osaka, 618, Japan cs

Chem. Pharm. Bull. (1996), 44(1), 139-44 CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

A new series of 2-arylmethyl-1,4-benzoquinones was synthesized for evaluation of their pharmacol. activities. These compds. showed significant inhibition of platelet aggregation induced by arachidonic acid (AA) and some of them possessed a protective effect against endothelial cell injury caused by hydrogen peroxide.

IT 114072-76-3P 174868-89-4P 174868-91-8P

174868-95-2P

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of arylmethylbenzoquinone platelet aggregation inhibitors)

RN 114072-76-3 HCAPLUS

CN Benzenepropanoic acid, 3-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4cyclohexadien-1-yl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{MeO} \\ \text{MeO} \\ \text{Me} \end{array}$$

174868-89-4 HCAPLUS RN

Benzenepropanoic acid, 3-[{2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]-, ethyl ester (9CI) (CA INDEX NAME)

Me
$$CH_2$$
 CH_2 CH_2

RN 174868-91-8 HCAPLUS

Piperazine, 1-methyl-4-[1-oxo-3-[3-[(2,4,5-trimethyl-3,6-dioxo-1,4cyclohexadien-1-yl)methyl]phenyl]propyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} \\ \text{O} \\ \text{Me} \end{array} \begin{array}{c} \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{C} \\ \text{N} \end{array} \begin{array}{c} \text{Me} \\ \text{N} \end{array}$$

174868-95-2 HCAPLUS RN

2-Propenoic acid, 3-[4-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1-CN yl)methyl)phenyl)-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 9 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1994:22414 HCAPLUS

DN 120:22414

TI Direct observation of a consecutive two-step electron transfer in some zinc porphyrin-pyromellitimide-quinone triads which undergo the same mode of electron transfers as in the bacterial photosynthetic reaction center

AU Ohkohchi, Masaya; Takahashi, Akiko; Mataga, Noboru; Okada, Tadashi; Osuka, Atsuhiro; Yamada, Hiroko; Maruyama, Kazuhiro

CS Fac. Eng. Sci., Osaka Univ., Toyanaka, 560, Japan

SO J. Am. Chem. Soc. (1993), 115(25), 12137-43 CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA English

ΑB Intramol. photoinduced electron transfer in triads composed of Zn porphyrin (ZnP), pyromellitimide (Im), and quinone (Q) were studied by ps transient absorption spectroscopy to observe directly a 2-step electron transfer, the reaction mode of which is the same as that occurring in the biol. photosynthetic reaction center. Intramol. charge sepn. in 1(ZnP)*-Im-Q gives an initial ion pair (IP) state $\{(ZnP)+-(Im)--Q\}$, in which the charge shift reaction giving a secondary IP state [(ZnP)+-Im-(Q)-] occurs in competition with charge recombination deactivation to the ground state. This 2-step electron transfer was obsd. directly by monitoring the rise and decay kinetics of a characteristic sharp absorption band due to (Im) -: 1(ZnP) *-Im-Q .fwdarw. (ZnP) +-(Im) --Q .fwdarw. (2nP)+-Im-(Q)+. Rates of the charge shift reaction can be controlled by changing the redn. potential of Q, and an .apprx.100% quantum yield for the formation of (ZnP)+-Im-(Q)-from 1(ZnP)*-Im-Q was realized in a triad bearing trichloro-1,4-benzoquinone as the 2nd electron acceptor owing to a faster charge shift reaction than charge recombination in the (ZnP)+-(Im)--Q state.

IT 151892-30-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and NMR and transient absorption spectra and bacterial photosynthetic electron transfer reaction center modeling by)

RN 151892-30-7 HCAPLUS

CN Zinc, [2-[4-[(3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]phenyl]-6-[[4-[2,8,12,18-tetracyclohexyl-3,7,13,17-tetramethyl-15-(4-methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]benzo[1,2-c:4,5-c']dipyrrole-1,3,5,7(2H,6H)-tetronato(2-)-N21,N22,N23,N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

$$\begin{array}{c} Me \\ N^- \\ N^- \\ N \end{array}$$

$$\begin{array}{c} Me \\ N^- \\ N \end{array}$$

$$\begin{array}{c} CH_2 \\ N \end{array}$$

$$\begin{array}{c} N \\ N \end{array}$$

PAGE 1-B

L16 ANSWER 10 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1993:495201 HCAPLUS

119:95201 DN

Intramolecular photoinduced charge separation and charge recombination of the product ion pair states of a series of fixed-distance dyads of porphyrins and quinones: energy gap and temperature dependences of the rate constants

Asahi, Tsuyoshi; Ohkohchi, Masaya; Matsusaka, Ryohzi; Mataga, Noboru; Zhang, Run Ping; Osuka, Atsuhiro; Maruyama, Kazuhiro

CS

Fac. Eng. Sci., Osaka Univ., Toyonaka, 560, Japan J. Am. Chem. Soc. (1993), 115(13), 5665-74 SO CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA English

Intramol. photoinduced charge sepn. (CS) and charge recombination (CR) of the product ion pair (IP) state of a series of fixed-distance dyads consisting of free-base porphyrin or zinc porphyrin and quinones were investigated by means of picosecond-femtosecond laser spectroscopies in order to examine the energy gap and temp. dependence of CS and CR reactions in nonpolar media. Obtained CS rates were in the normal region, up to the neighborhood of the top region, and CR rates were in the inverted region; their energy gap dependences at room temp. were approxreproduced by a semiclassical formula taking into consideration the high-frequency quantum mode of nuclear vibrations, although the CS rates

near the top region did not show indication of the shift to the inverted region, contrary to the calcn. It was confirmed that the activation barrier for the CS reaction increases with a decrease of the energy gap, while the CR process is activationless, indicating the dominant effect of the high-frequency quantum mode in the inverted region. However, it was hard to find optimum parameter values for reorganization energies, etc., in the theor. equation which could reproduce quant. both the energy gap dependence and the temp. dependence of the CS and CR rates at the same time. The solvent polarity effect upon the energy gap (-.DELTA.GCS) dependence of the CS rate const. (kCS) was also examd. and showed a rather large systematic change corresponding to the increase of the solvent reorganization energy with the increase of the solvent polarity, while the energy gap (.DELTA.GCR) dependence of the CR rate const. (kCR) showed little solvent polarity dependence, leading to the crossing between the kCS.apprxeq.-.DELTA.GCS curve in the normal to near the top region and the kCR.apprxeq.-.DELTA.GCR in the inverted to near the top region. Implications of these results, which seem difficult to interpret on the basis of the conventional electron-transfer theories, are discussed on the basis of the dominant effect of the quantum mech. tunneling in the inverted region and/or the existence of nonlinear or some specific interactions between the IP state and the surrounding polar solvent.

IT 136300-62-4 145847-08-1 145847-09-2

RL: PRP (Properties)

(intramol. photoinduced charge sepn. and charge recombination of the product ion pair states of, energy gap and temp. and solvent effects on)

RN 136300-62-4 HCAPLUS

CN Zinc, [2-[[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-(4methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4dionato(2-)-N21,N22,N23,N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

Me
$$N^ N$$
 $N^ N$ $N^ N^ N^-$

RN 145847-08-1 HCAPLUS

CN Zinc, [2-methyl-5-[[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-(4-methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(2-)-N21,N22,N23,N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Et} & \text{Et} \\ \text{Me} & \\ N^- & N \\ N^- & N \\ N^- & N^- \\ \text{Me} & \\ \text$$

RN 145847-09-2 HCAPLUS

CN Zinc, [2,3-dimethyl-5-[[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-SEARCHED BY SUSAN HANLEY 305-4053

(4-methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(2-)-N21,N22,N23,N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

L16 ANSWER 11 OF 29 HCAPLUS COPYRIGHT 2000 ACS

1993:408569 HCAPLUS AN

DΝ 119:8569

Synthesis and intramolecular electron-transfer reaction of distance-fixed ΤI quinone-linked porphyrins

Osuka, Atsuhiro; Zhang, Run Ping; Maruyama, Kazuhiro; Yamazaki, Iwao; Nishimura, Yoshinobu

CS

Fac. Sci., Kyoto Univ., Kyoto, 606, Japan Bull. Chem. Soc. Jpn. (1992), 65(10), 2807-13 SO

CODEN: BCSJA8; ISSN: 0009-2673

DT Journal

LA English

GT

The synthesis of distance-fixed quinone-linked porphyrins I (R = H, Me; R1 = H, Me, Cl; RR1 = CH:CHCH:CH; M = Zn, 2H) in which electron affinity of the attached quinone is systematically changes is described. The fluorescence lifetimes of the porphyrin chromophore in these model compds. were shortened due to the intramol. electron transfer to the attached quinone. The rates of the charge sepn. between the singlet excited state of the porphyrin and the quinone were detd. on the basis of these shortened fluorescence lifetimes and were plotted against the free energy changes assocd. with the charge sepn. Up to ca. 1.54 eV exothermic reaction, the rates of the charge sepn. were found to still increase.

ΙT 136300-62-4P 145847-08-1P 145847-09-2P

> RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and intramol. electron transfer reaction of)

136300-62-4 HCAPLUS

Zinc, [2-[[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-(4-CN methylphenyl)-21H,23H-porphin-5-yl]phenyl/methyl]-2,5-cyclohexadiene-1,4dionato(2-)-N21, N22, N23, N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

Ι

145847-08-1 HCAPLUS

Zinc, [2-methyl-5-[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-(4-18,18)]CN methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4dionato(2-)-N21, N22, N23, N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

145847-09-2 HCAPLUS RN

Zinc, [2,3-dimethyl-5-[[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-(4-methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-CN 1,4-dionato(2-)-N21,N22,N23,N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

L16 ANSWER 12 OF 29 HCAPLUS COPYRIGHT 2000 ACS

ΑN 1993:147300 HCAPLUS

118:147300 DN

Preparation of phenoxyacetic acid derivatives for treatment of organic or ΤI functional disorders from ischemia

Tatsuoka, Toshio; Suzuki, Kenji

PA

Suntory, Ltd., Japan Jpn. Kokai Tokkyo Koho, 15 pp. so

CODEN: JKXXAF

DT Patent

Japanese LA

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 04226937 A2 19920817 JP 1991-130100 19910601

PRAI JP 1990-141676 19900601

OS MARPAT 118:147300

GI

$$R^{1}$$
 R^{3}
 $OCH_{2}R^{4}$
 R^{1}
 R^{2}
 R^{3}
 $OCH_{2}R^{4}$
 R^{2}
 R^{3}
 R^{2}
 R^{3}
 R^{2}
 R^{3}
 R^{4}
 R^{2}
 R^{4}
 R^{5}
 R^{3}
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 R^{5}

AB The title compds. (I and II; R1-R3 = C1-5 alkyl or alkoxy; R4 = CO2H, its ester or amide; R5, R6 = OH, C1-5 alkoxy), inhibiting blood platelet aggregation, cell injury, and brain edema and useful for treating heart ischemia diseases such as angina pectoris, cardiac infarction, and heart failure and brain ischemic diseases such as brain edema and apoplexy sequelae, are prepd. Thus, acetylation of 4-(2,5-dimethoxy-3,4,6-trimethylphenyl)methylphenol ((prepn. given) with Ac2O in pyridine in the presence of 4-dimethylaminopyridine and oxidn. of the product acetate with (NH4)2Ce(NO3)6 in aq. MeCN gave, after deacetylation with NaHCO3 in aq. MeOH, 4-(3,5,6-trimethyl-1,4-benzoquinon-2-yl)methylphenol which was alkylated by BrCH2CO2CMe3 in acetone contg. K2CO3 to give title compd. II (X = CH2CO2CMe3). II (X = CH2CO2Et) showed IC50 of 3.8 and 4.2 (concn. unit not given) for inhibiting collagen- and arachidonic acid-induced aggregation of rabbit blood platelets. A total of 19 I were prepd.

IT 146475-92-5P 146475-93-6P 146476-02-0P 146476-03-1P 146476-04-2P 146476-05-3P 146476-08-6P 146476-09-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, for treatment of ischemic brain and heart disease)

RN 146475-92-5 HCAPLUS
CN Acetic acid, [4-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-l yl)methyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \bigcirc & \bigcirc \\ \text{Me} & \bigcirc & \bigcirc \\ \text{Me} & \bigcirc & \bigcirc \\ \text{O-} & \text{CH}_2 - \text{C-} & \text{OBu-t} \\ \end{array}$$

RN 146475-93-6 HCAPLUS

CN Acetic acid, [3-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Me
$$CH_2$$
 CH_2 CH_2

146476-02-0 HCAPLUS RN

Acetic acid, [4-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

 $\begin{array}{lll} 146476-03-1 & HCAPLUS \\ Acetic acid, & [3-[(2,4,5-trimethyl-3,6-dioxo-1,4-cyclohexadien-1-\\ & \end{array}$ yl)methyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN

146476-04-2 HCAPLUS
Acetic acid, [3-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1-CN yl)methyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

146476-05-3 HCAPLUS

Acetic acid, [4-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1yl)methyl]phenoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

146476-08-6 HCAPLUS

Acetic acid, [3-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1-CN yl)methyl)phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

RN

146476-09-7 HCAPLUS
Acetic acid, [4-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4-cyclohexadien-1-CN yl)methyl]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 13 OF 29 HCAPLUS COPYRIGHT 2000 ACS

1992:59035 HCAPLUS AN

DN 116:59035

Synthesis and fluorescence properties of selectively metalated ΤI diporphyrins with electron-accepting moieties

ΑU Nagata, Toshi

CS

Fac. Sci., Kyoto Univ., Kyoto, 606, Japan Bull. Chem. Soc. Jpn. (1991), 64(10), 3005-16 CODEN: BCSJA8; ISSN: 0009-2673 SO

DT Journal

LA· English

AB Diporphyrins, e.g., I (M = M1 = H2) were prepd. and metalated to give a mixt. of mono- and dizinc complexes with preferential formation of monozinc porphyrins, e.g., I (M = H2, M1 = Zn) over I (M = Zn, M1 = H2). Steady-state fluorescence of the zinc complexes showed substantial quenching of the fluorescence of the free-base porphyrin. A possible super exchange mechanism of long-range electron transfer is discussed.

Ι

IT 138394-62-4P 138394-63-5P 138394-64-6P 138394-65-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and fluorescence spectrum of)

- RN 138394-62-4 HCAPLUS

RN

138394-63-5 HCAPLUS Zinc, [.mu.-[2-[[4-[15-[4'-[15-[2,6-bis(phenylmethoxy)phenyl]-2,8,12,18-CN tetrahexy1-3,7,13,17-tetramethy1-21H,23H-porphin-5-y1][1,1'-bipheny1]-4y1]-2,8,12,18-tetrahexy1-3,7,13,17-tetramethy1-21H,23H-porphin-5-y1]pheny1]methy1]-5-methy1-2,5-cyclohexadiene-1,4-dionato(4-)-N21,N22,N23,N24:N21',N22',N23',N24']]di- (9CI) (CA INDEX NAME)

PAGE 1-B

138394-64-6 HCAPLUS

Zinc, [.mu.-[2-[[4-[15-[4''-[15-[2,6-bis(phenylmethoxy)phenyl]-2,8,12,18tetrahexyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl][1,1':4',1''terphenyl]-4-yl]-2,8,12,18-tetrahexyl-3,7,13,17-tetramethyl-21H,23Hporphin-5-yl]phenyl]methyl]-5-methyl-2,5-cyclohexadiene-1,4-dionato(4-)-N21, N22, N23, N24: N21', N22', N23', N24']]di- (9CI) (CA INDEX NAME)

RN 138394-65-7 HCAPLUS

CN Zinc, [.mu.-[2-[[4-[15-[4-[15-[2,6-bis(phenylmethoxy)phenyl]-2,8,12,18-tetrahexyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]phenyl]-2,8,12,18-tetrahexyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]-5-methyl-2,5-cyclohexadiene-1,4-dionato(4-)-N21,N22,N23,N24:N21',N22',N23',N24']]di- (9CI) (CA INDEX NAME)

L16 ANSWER 14 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1991:558284 HCAPLUS

DN 115:158284

TI Photoinduced electron transfer reactions in quinone-linked zinc porphyrin arrays

AU Osuka, Atsuhiro; Maruyama, Kazuhiro; Mataga, Noboru; Asahi, Tsuyoshi; Yamazaki, Iwao; Tamai, Naoto; Nishimura, Yoshinobu

CS Fac. Sci., Kyoto Univ., Kyoto, 606, Japan

SO Chem. Phys. Lett. (1991), 181(5), 413-18 CODEN: CHPLBC; ISSN: 0009-2614

DT Journal

LA English

AB Intramol. photoinduced electron transfer reactions of conformationally restricted quinone-linked zinc porphyrin monomer, dimer, and trimers have been studied by picosecond time-resolved absorption spectroscopy. Both charge sepn. and charge recombination are very rapid in the monomeric model; charge recombination is partly impeded in the dimeric model. In the trimeric models, the singlet excited state of the distal coplanar diporphyrin is efficiently quenched by the attached quinone and long-lived charge-sepd. states are formed most probably by electron transfer from the diporphyrin part to the monomeric porphyrin part, competing with rapid charge recombination.

IT 133369-66-1 133392-57-1 136300-62-4

136324-44-2

RL: PRP (Properties)

(photoinduced intramol. electron transfer in)

RN 133369-66-1 HCAPLUS

CN Zinc, [.mu.3-[2-[[4-[15-[4-[15-[8-(13,17-dihexyl-2,3,7,8,12,18-hexamethyl-21H,23H-porphin-5-yl)-1-anthracenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl)phenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl)phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(6-)-N21,N22,N23,N24:N21',N22',N23',N24':N21'',N22'',N23'',N24'']]tri- (9CI) (CA INDEX NAME)

PAGE 1-B

133392-57-1 HCAPLUS
Zinc, [.mu.-[2-[[4-[15-[8-(13,17-dihexyl-2,3,7,8,12,18-hexamethyl-21H,23H-porphin-5-yl]-1-anthracenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(4-)-N21,N22,N23,N24:N21',N22',N23',N24']]di- (9CI) (CA INDEX NAME)

PAGE 2-A

PAGE 3-A

RN 136300-62-4 HCAPLUS

CN Zinc, [2-[[4-[2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-15-(4methylphenyl)-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4dionato(2-)-N21,N22,N23,N24]-, (SP-4-2)- (9CI) (CA INDEX NAME)

Me Me Me
$$CH_2$$

Me CH_2

Et Et

Me CH_2

RN 136324-44-2 HCAPLUS

Zinc, [.mu.3-[2-[[4-[15-[4'-[15-[8-(13,17-dihexyl-2,3,7,8,12,18-hexamethyl-21H,23H-porphin-5-yl]-1-anthracenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl][1,1'-biphenyl]-4-yl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(6-)-N21,N22,N23,N24:N21',N22',N23',N24':N21'',N22'',N23'',N24'']]tri-(9CI) (CA INDEX NAME)

PAGE 1-A

Me--

L16 ANSWER 15 OF 29 HCAPLUS COPYRIGHT 2000 ACS AN 1991:546507 HCAPLUS

115:146507 ÐΝ

Heat-developable photographic material and reduced-stain image formation ΤI

Hirai, Hiroyuki; Oki, Nobutaka; Ono, Michio Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 35 pp. IN

PΑ

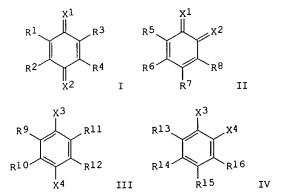
SO

CODEN: JKXXAF

DΤ Patent

LA Japanese

FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	JP 02239247	A2	19900921	JP 1989-60527	19890313
	JP 2611832	B2	19970521		
os	MARPAT 115:14650	7			
GI					



The title heat-developable color photog. material possesses in a coating layer a) photosensitive Ag halide, b) a binder, c) a dye-donor compd. releasing a diffusible dye upon redn. and d) I and/or II and III and(or) IV [X1, X2 = O, NR17; X3, X4 = OH, NHR7 (R17 = aryl, SO2; R1-16 = H, AΒ

alkyl, aryl, carbamyl, sulfamoyl, SO2, aryl, alkoxycarbonyl, aryloxycarbonyl, alkoxy, OH, NH2, arylamino, aryloxy, sulfonyl = amino, halo, alkylthio, arylthio, SO3H, CO2H; R1 and R2, R3 and R4, R5 and R6, R6 and R7, R7 and R8, R9 and R10, R11 and R12, R13 and R14, R14 and R15, and R15 and R16 may join to form a ring; dimers and trimers formed through R1-16 and oligomers and polymers formed via linkage through R1-16 are also included). I and(or) II are present at a level 2-100 mol% of III and(or) IV. Image formation is effected by heating subsequent to or during imagewise exposure of the above material.

136095-57-3

RL: USES (Uses)

(heat-developable photog. material using)

136095-57-3 HCAPLUS

Benzamide, N-[4-(1,1-dimethylethyl)-3,6-dioxo-1,4-cyclohexadien-1-yl]-4-[[4-(1,1-dimethylethyl)-3,6-dioxo-1,4-cyclohexadien-1-yl]methyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 16 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1991:206863 HCAPLUS

114:206863

Synthesis of quinone-linked porphyrin dimer, trimer, and tetramer as ΤI models for photosynthetic reaction center

Osuka, Atsuhiro; Nagata, Toshi; Maruyama, Kazuhiro

Fac. Sci., Kyoto Univ., Kyoto, 606, Japan CS

Chem. Lett. (1991), (3), 481-4SO

CODEN: CMLTAG; ISSN: 0366-7022

DTJournal

LA Enalish

- As models for the photosynthetic reaction center, conformationally restricted quinone-linked porphyrin dimer, trimer, and tetramer were synthesized. The Soret bands of these zinc complexes are blue-shifted or split due to the exciton coupling depending on the geometries and compns. The fluorescence intensities of these models are significantly reduced by the attached quinone, indicating the efficient electron transfer to the quinone.
- 133369-66-1P 133369-67-2P 133392-57-1P IT

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. and UV spectra of, Soret bands in)

133369-66-1 HCAPLUS RN

Zinc, [.mu.3-[2-[4-[15-[4-[15-[8-(13,17-dihexyl-2,3,7,8,12,18-hexamethyl-21H, 23H-porphin-5-yl)-1-anthracenyl]-2,8,12,18-tetraethyl-3,7,13,17tetramethy1-21H,23H-porphin-5-y1]pheny1]-2,8,12,18-tetraethy1-3,7,13,17tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4dionato(6-)-N21,N22,N23,N24:N21',N22',N23',N24':N21'',N22'',N23'',N24'']]t ri- (9CI) (CA INDEX NAME)

PAGE 1-B

RN 133369-67-2 HCAPLUS

CN Zinc, [.mu.4-[2-[(4-[15-[4-[15-[4-(15-[8-(13,17-dihexyl-2,3,7,8,12,18-hexamethyl-21H,23H-porphin-5-yl)-1-anthracenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(8-)-N21,N22,N23,N24:N21',N22',N23',N24':N21'',N22''',N23''',N24'':N21'',N22''',N23''',N24''']]tetra- (9CI) (CA INDEX NAME)

PAGE 1-B

RN

133392-57-1 HCAPLUS
Zinc, [.mu.-[2-[[4-[15-[8-(13,17-dihexyl-2,3,7,8,12,18-hexamethyl-21H,23H-porphin-5-yl])-1-anthracenyl]-2,8,12,18-tetraethyl-3,7,13,17-tetramethyl-21H,23H-porphin-5-yl]phenyl]methyl]-2,5-cyclohexadiene-1,4-dionato(4-)-N21,N22,N23,N24:N21',N22',N23',N24']]di- (9CI) (CA INDEX NAME)

PAGE 2-A

PAGE 3-A

L16 ANSWER 17 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1988:186319 HCAPLUS

DN 108:186319

TI Preparation of benzylbenzoquinone derivatives for treatment of cerebral disorders

IN Tatsuoka, Toshio; Suzuki, Kenji; Sato, Fumio; Miyano, Seiji; Sumoto, Kunihiro

PA Suntory, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

truv.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 62286949	A2	19871212	JP 1986-131139	19860606
	JP 2506337	B2	19960612		

Ι

II

GΙ

$$R^2$$
 CH_2
 A_nR^4
 R^3

AB Title compds. I [R1, R2, R3 = H, Me, MeO; R4 = H, HOCH2, (esterified or amidated) carboxyl; A = ethylene, vinylene; n = 0, 1] are prepd. Refluxing II (R5 = OH) (prepn. given) in SOC12 for 12 h, followed by treatment of the resulting product with Zn at room temp. for 3 h gave 24.5% II (R5 = H), which was treated with picolinic acid and (NH4)2Ce(NO3)6 in MeCN-H2O at room temp. for 30 min to afford 44.0% I (R1 - R3 = H, R4 = CO2Et, A = 3-vinylene) (III). III at .ltoreq.12.5 mg/kg i.p. showed antihypoxia activity in mice. A capsule was formulated contg. III 50, lactose 59.5, corn starch 40, and SiO2 0.5 mg.

IT 114072-67-2P 114072-76-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, for treatment of cerebral disorders)

RN 114072-67-2 HCAPLUS

2-Propenoic acid, 3-(3-((3,6-dioxo-1,4-cyclohexadien-1-yl)methyl)phenyl)-, ethyl ester (9CI) (CA INDEX NAME)

114072-76-3 HCAPLUS

Benzenepropanoic acid, 3-[(4,5-dimethoxy-2-methyl-3,6-dioxo-1,4cyclohexadien-1-yl)methyl)-, ethyl ester (9CI) (CA INDEX NAME)

L16 ANSWER 18 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1987:496159 HCAPLUS

107:96159

Photooxidation of methylbenzenes and methylnaphthalenes sensitized by ΤI cyanoanthracenes

Albini, Angelo; Spreti, Silvia

CS

Dip. Chim. Org., Univ. Pavia, Pavia, 27100, Italy Z. Naturforsch., B: Anorg. Chem., Org. Chem. (1986), 41B(10), 1286-92 SO CODEN: ZNBAD2; ISSN: 0340-5087

DT Journal

English LA

9-Cyanoanthracene, 9,10-dicyanoanthracene, and 3,7,9,10tetracyanoanthracene photosensitize the oxidn. in acetonitrile of toluene, durene, hexamethylbenzene, 1-methyl-, and 2-methylnaphthalene to the corresponding aldehydes, with low yield of the alcs. and, in the case of hexamethylbenzene, of tetramethylphthalide. In benzene, only hexamethylbenzene reacts through a different pathway involving singlet oxygen. Comparison with fluorescence quenching data and expts. in the presence of good donors, halides or radical traps, as well as the effect of solvents and of oxygen concn., show that the reaction involves electron transfer from the methyl-substituted arom. to the singlet excited state of the sensitizer, followed by proton transfer to CA.bul.- (CA = cyanoanthracene) or O2.bul.- yielding benzyl radicals, which react with oxygen or can be trapped.

109968-53-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

109968-53-8 HCAPLUS RN

2,5-Cyclohexadiene-1,4-dione, 2-[(2,4,5-trimethylphenyl)methyl]- (9CI) CN (CA INDEX NAME)

ANSWER 19 OF 29 HCAPLUS COPYRIGHT 2000 ACS

1983:559939 HCAPLUS AN

DN 99:159939

ΤI Quinone group-containing azo compounds

Fuji Photo Film Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 8 pp. PA

SO

CODEN: JKXXAF

DT Patent

LA Japanese

r AIN	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 58065758	A2	19830419	JP 1981-160785	19811008
	JP 60046143	B4	19851014		

GI

$$\begin{array}{c|c}
\text{OH} & \text{N} = \text{N} \\
\text{OCHMe}_2 & \text{O}
\end{array}$$

Quinone group-contg. azo compds. were prepd. by coupling of quinone group-contg. diazonium salts obtained by treating arom. primary amines contg. hydroquinone group with HNO2 and an oxidizing agent. Thus, 4-(2,5-dihydroxyphenethyl)aniline-HCl [53554-57-7] was diazotized (HCl-NaNO2, HNO2 also acts as an oxidant) and coupled with 4-isopropoxy-1-naphthol [41426-37-3] to give I [53554-47-5]. 53554-54-4P 53554-56-6P

IT

RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of) 53554-54-4 HCAPLUS

RN

2-Benzofuranpropanenitrile, .alpha.-[[5-[(3,6-dioxo-1,4-cyclohexadien-1yl)methyl]-2-methylphenyl]hydrazono]-.beta.-oxo- (9CI) (CA INDEX NAME)

53554-56-6 HCAPLUS

2-Benzofuranpropanenitrile, .alpha.-[[5-[(3,6-dioxo-1,4-cyclohexadien-1-CN y1)methy1]-2-hydroxyphenyl]hydrazono]-3-methyl-.beta.-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1982:627307 HCAPLUS

DN 97:227307

TI The photochemical dissociation of water by means of visible light

AU Harriman, A.; Porter, G.

CS Davy Faraday Res. Lab., R. Inst., London, W1X 4BS, UK

SO Comm. Eur. Communities, [Rep.] EUR (1982), EUR 7682, 147 pp. CODEN: CECED9

DT Report

LA English

AB The attempts to construct in vitro a lab. model for a natural photosynthetic process are described. Several simple Mn (III) and Mn (III) chelates quenched the singlet and triplet states of chlorophyll in soln. but the reactions did not produce the radical ions. Replacing the Mn chelates with Mn gluconates (better reductants) and chlorophyll with thionine (better oxidant) offered no improvements. Several H2O sol. Mn porphyrins (MnP) were synthesized and characterized. MnP were stable towards photodegrdn. (only Mn(IV)P showed an appreciable tendency to undergo photoredn.). Metalloporphyrins were photooxidized in presence of excess quinone (Q). In case of Zn and Cu porphyrins reversible electron transfer took place with Q, and in case of Mn(II)P permanent products were formed. Mn(III)P also photoreduced Q to QH2 but the reaction was less efficient than that obsd. for Mn(II)P. The quantum yield was pH dependent and reached an optimum value of .apprx.8%. During this reaction O was evolved (as measured by a membrane electrode) but only for a short time.

IT 82684-61-5

RL: USES (Uses)
 (photolysis of manganese porphyrin and, visible light water photolysis
 in relation to)

RN 82684-61-5 HCAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2-[[4-(1-ethylpropyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 21 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1981:73664 HCAPLUS

DN 94:73664

TI Redox resin electrode and its regeneration

PA Matsushita Electric Industrial Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 55128593 A2 19801004 JP 1979-34680 19790323

JP 63027973 B4 19880606

AB A mixt. of powd. insol. redox resin and elec. conductor is used to fill a cylindrical electrode or the former is compacted on a porous elec. conductor plate, and an anodic or a cathodic current is applied to oxidize or reduce the resin. Thus, a 1:1 mixt. of powd. poly[3-(4-vinylphenylmethyl)-1,4-dihydroxybenzene [76341-00-9] resin and C was used to fill a metal cylinder with a porous bottom and water satd. with O was circulated to produce an aq. soln. of H2O2.

IT 76341-01-0

RL: RCT (Reactant)
 (redn. of, electrochem., oxygen redn. to hydrogen peroxide in relation
 to)

RN 76341-01-0 HCAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2-[(4-ethenylphenyl)methyl]-, homopolymer
 (9CI) (CA INDEX NAME)

CM 1

CRN 4021-88-9 CMF C15 H12 O2

$$CH_2$$
 $CH = CH_2$

L16 ANSWER 22 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1981:15335 HCAPLUS

DN 94:15335

TI Electron-transfer processes by peroxydisulfate: homolytic benzylation of quinones by alkylarenes and reactions of aromatic radical cations with aromatics

AU Citterio, Attilio

CS Ist. Chim., Politec. Milano, Milan, I-20133, Italy

SO Gazz. Chim. Ital. (1980), 110(4), 253-8

CODEN: GCITA9; ISSN: 0016-5603

DT Journal

LA English

GI

AB Benzylquinones I (R = H, OH, Me, Ac; R1 = H, Me; R2 = MeO, H; R3 = H, Me, MeO, Me2CH; R4 = H, Me) were prepd. in 70-90% yields under two-phase conditions by stirring a soln. of quinone and II with AgNO3 and Na2S2O8 at 60.degree. for 2 h.

IT 76025-35-9P 76025-36-0P 76025-37-1P

76025-38-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 76025-35-9 HCAPLUS

CN 2,5-Cyclohexadiene-1,4-dione, 2-{(4-methylphenyl)methyl}- (9CI) (CA INDEX NAME)

RN 76025-36-0 HCAPLUS 2,5-Cyclohexadiene-1,4-dione, 2-[(2-methylphenyl)methyl]- (9CI) (CA INDEX CN

76025-37-1 HCAPLUS RN 2,5-Cyclohexadiene-1,4-dione, 2-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

76025-38-2 HCAPLUS RN 2,5-Cyclohexadiene-1,4-dione, 2-[(3,5-dimethylphenyl)methyl]- (9CI) (CA CN INDEX NAME)

L16 ANSWER 23 OF 29 HCAPLUS COPYRIGHT 2000 ACS

1980:514350 HCAPLUS AN

93:114350 DN

Quinones and quinone methides. VI. Reactions of 2-(arylmethyl)- and ΤI 2-(1-arylethyl)-1,4-benzoquinones with 4-hydroxy-2H-1-benzopyran-2-one

Jurd, Leonard; Wong, Rosalind Y. ΑU

Sci. Educ. Adm., West. Reg. Res. Cent., Berkeley, CA, 94710, USA Aust. J. Chem. (1980), 33(1), 137-54 CODEN: AJCHAS; ISSN: 0004-9425 CS

DT Journal English

LA

- AB In alc. KOH 2-methoxy-5-[(4-methoxyphenyl)methyl]-1,4-benzoquinone (I) reacted with 4-hydroxy-2H-1-benzopyran-2-one (II) to yield the quinol (III). In pyridine, however, I tautomerized the o-quinone methide which combined with II to yield IV. 2-(1-Arylethyl)-1,4-benzoquinones yielded quinols related to III in both alc. KOH and pyridine solns.; this indicates that quinone methides which might be formed from these quinones are relatively unreactive to nucleophiles.
- IT 66092-34-0

RL: RCT (Reactant)

(reaction of, with hydroxybenzopyranones)

- RN 66092-34-0 HCAPLUS
- CN 2,5-Cyclohexadiene-1,4-dione, 2-methoxy-5-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

- L16 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2000 ACS
- AN 1980:76262 HCAPLUS
- DN 92:76262
- Quinones and quinone methides. IV. Dimerization reactions of 2-phenylmethyl-5-methoxy-1,4-benzoquinones
- AU Jurd, L.; Roitman, J. N.; Wong, R. Y.
- CS Sci. Educ. Admin., USDA, Berkeley, CA, 94710, USA
- SO Tetrahedron (1979), 35(9), 1041-54 CODEN: TETRAB; ISSN: 0040-4020
- DT Journal
- LA English
- GI
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB The benzoquinone I (R = R1 = OMe, R2 = H), prepd. by condensation of 4-MeOC6H4CH2OH with 2-methoxyhydroquinone and subsequent oxidn. (Ag2O), dimerized to the tetrahydroxanthene II (50-60%) on heating in pyridine (100.degree., 1 h). The benzoquinones I (R = Me, R1 = OMe, R2 = H; R = OMe, R1R2 = OCH2O) underwent analogous dimerizations in pyridine. II underwent mol. rearrangement on treatment with acids and bases and with SEARCHED BY SUSAN HANLEY 305-4053

oxidizing and reducing agents. E.g., treatment of II with methanolic NaOAc gave the dihydrooxepin III and the spiro compds. IV and V. The structures of II and III were confirmed by x-ray crystallog. Mechanisms are proposed for the dimerization of I to II and the rearrangements of II to III-V.

IΤ 66092-34-0P 72590-31-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and dimerization of)

RN 66092-34-0 HCAPLUS

2,5-Cyclohexadiene-1,4-dione, 2-methoxy-5-[(4-methoxyphenyl)methyl]- (9CI) CN (CA INDEX NAME)

72590-31-9 HCAPLUS RN

CN 2,5-Cyclohexadiene-1,4-dione, 2-[(4-methoxyphenyl)methyl)-5-methyl- (9CI) (CA INDEX NAME)

- L16 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2000 ACS
- 1979:455928 HCAPLUS AN

91:55928

- Electron-transfer processes: oxidation of naphthalene and p-cymene by ΤI peroxydisulfate
- Giordano, Claudio; Belli, Aldo; Citterio, Attilio; Minisci, Francesco ΑU

Ist. Donegani, Novara, Italy

- J. Org. Chem. (1979), 44(13), 2314-15 CODEN: JOCEAH; ISSN: 0022-3263 so
- DΤ Journal

LA English

- Direct arom. oxidative acetoxylation (AcOH/KOAc) of naphthalene occurs in the presence of S2082- and Cu(OAc)2. p-Cymene (I) gives p-Me2CHC6H4CH2OAc under the same conditions. The oxidn. of I with S2082- in the presence of p-benzoquinone gives the 2-(p-isopropylbenzyl)benzoquinone in 40% yield; moreover p-MeCHC6H4R (R = CH2OH, CHO) were isolated in addnl. 30% yield. These results provide further evidence concerning the formation of arom. radical cations in the interaction of the sulfate radical anion, SO4-.bul., with aroms.
- 69897-58-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

RN 69897-58-1 HCAPLUS

2,5-Cyclohexadiene-1,4-dione, 2-[[4-(1-methylethyl)phenyl]methyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2000 ACS AN 1978:135864 HCAPLUS DN 88:135864 ΤI Quinones and quinone methides. III. A novel side-chain amination reaction of 2-(1-phenylethyl)-1,4-benzoquinones ΑU Jurd, Leonard CS WRRC, ARS, Berkeley, Calif., USA Aust. J. Chem. (1978), 31(2), 347-52 CODEN: AJCHAS; ISSN: 0004-9425 DΤ Journal LA English 2-Benzyl-5-methoxy-1,4-benzoquinones react with morpholine to yield AΒ $\hbox{$2$-phenylmorpholinomethylhydroquinones.} \quad \hbox{However, 5-methoxy-2-(1-section of the context of the context$ phenylethyl)-1,4-benzoquinones undergo a novel amination reaction at the .beta.-C atom of the alkyl group with the formation of 2-morpholino-3-phenylbenzofurans. IT 66092-34-0 RL: RCT (Reactant) (reaction of, with morpholine) 66092-34-0 HCAPLUS RN 2,5-Cyclohexadiene-1,4-dione, 2-methoxy-5-[(4-methoxyphenyl)methyl]- (9CI) (CA INDEX NAME)

L16 ANSWER 27 OF 29 HCAPLUS COPYRIGHT 2000 ACS 1976:152204 HCAPLUS AΝ DN 84:152204 ΤI Azo dyes containing quinone groups Maekawa, Yukio IN PΑ Fuji Photo Film Co., Ltd., Japan Japan. Kokai, 17 pp. CODEN: JKXXAF so DT Patent LA Japanese FAN. CNT 1

GΙ

Azo dyes contg. quinone groups, useful as intermediates in the prepn. of color formers for diffusion-transfer color photog. film, are prepd. by reacting diazonium salts with coupling components contg. quinone groups. For example, 3,2-HOC10H6COC1 [1734-00-5] was condensed with 2,5-(HO)2C6H3CH2CH2C6H4NH2.HBr-4 [5803-20-3] and the amide product [58862-33-2] was oxidized by MnO2 in DMF-ClCH2CH2Cl to give I (R = H) [58862-32-1]. This was coupled with diazotized 4-MeC6H4NH2 [106-49-0] to give I (R = 4-MeC6H4N:N) [58862-34-3]. Another monoazo compd. and a disazo compd., each contg. a quinone group, were similarly prepd.

Ι

58862-27-4P

RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of) 58862-27-4 HCAPLUS

RN

dioxo-1,4-cyclohexadien-1-yl)methyl)phenyl]-4-hydroxy- (9CI) (CA INDEX

$$\begin{array}{c|c} O & CH_2 \\ \hline O & NH \\ \hline O & S & O \\ \hline \\ O_2N & OMe & OH \\ \end{array}$$

ANSWER 28 OF 29 HCAPLUS COPYRIGHT 2000 ACS L16

ΑN 1975:126602 HCAPLUS

DN 82:126602

ΤI Azo dyes

Fujita, Shinsaku

Fuji Photo Film Co., Ltd., Japan PA

Japan. Kokai, 9 pp. SO

CODEN: JKXXAF

DT Patent

Japanese LA

FAN.CNT 2

	MILLORI Z				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
Ρ:	I JP 49118723	A2	19741113	JP 1973-31592	19730319
	DE 2413223	A1	19740926	DE 1974-2413223	19740319
	GB 1426689	Α	19760303	GB 1974-12187	19740319

PRAI JP 1973-31592 19730319

For diagram(s), see printed CA Issue.

Arom. primary amine with hydroquinone group was treated with nitrous acid SEARCHED BY SUSAN HANLEY 305-4053

[7782-77-6] and oxidant to give diazonium salt contg. quinone group, which was then treated with coupler to give azo dyes contg. quinone group. Excess HNO2 acted as both diazotizing and oxidizing agents; and oxidants used in addn. to HNO2 were nitric acid [7697-37-2], bromic acid [7789-31-3], and Caro's acid [7722-86-3]. For example, 0.05 mole 4-(2,5-dihydroxyphenethyl) aniline-HCl [53554-57-7] in 2.5% HCl was treated with 0.16 mole NaNO2 at 0.degree. for 1-2 hr, treated with sulfamic acid and then NaOAc, and coupled with 4-isopropoxy-1-naphthol [41426-37-3] to give I (R = Me2CH) [53554-47-5]; also prepd. were, e.g., I (R = CH2CH2OEt) [53554-48-6], II (R = R1 = H) [53554-53-3], II (R = Me, R1 = H) [53554-54-4], and II (R = HO, R1 = Me) [53554-56-6].

IT 53554-54-4 53554-56-6 RL: MSC (Miscellaneous) (dyes, photog.)

RN 53554-54-4 HCAPLUS

CN 2-Benzofuranpropanenitrile, .alpha.-[[5-[(3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]-2-methylphenyl]hydrazono]-.beta.-oxo- (9CI) (CA INDEX NAME)

RN 53554-56-6 HCAPLUS

CN 2-Benzofuranpropanenitrile, .alpha.-[[5-[(3,6-dioxo-1,4-cyclohexadien-1-y1)methyl]-2-hydroxyphenyl]hydrazono)-3-methyl-.beta.-oxo- (9CI) (CA INDEX NAME)

L16 ANSWER 29 OF 29 HCAPLUS COPYRIGHT 2000 ACS

AN 1974:571365 HCAPLUS

DN 81:171365

TI Diazonium salts for forming azo dyes

IN Fujita, Shinsaku

PA Fuji Photo Film Co., Ltd.

SO Ger. Offen., 31 pp. CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2

APPLICATION NO. DATE PATENT NO. KIND DATE ---------19740926 DE 1974-2413223 19740319 A1 PΙ DE 2413223 JP 1973-31592 19741113 A2 JP 49118723 PRAI JP 1973-31592 19730319

AB Azo compds. (I, R = substituted naphthyl, phenyl, pyrazolyl, benzothiazolyl, (benzoxazolylcarbonyl)cyanomethyl; Rl = H, Me, OH; n = 1,2] or their tautomers useful as intermediates for photog. purposes, were prepd. by oxidn. of the [(aminophenyl)alkyl]hydroquinone deriv. during diazotization and coupling with RH.

IT 53554-54-4P 53554-56-6P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)

RN 53554-54-4 HCAPLUS

2-Benzofuranpropanenitrile, .alpha.-[[5-[(3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]-2-methylphenyl]hydrazono]-.beta.-oxo- (9CI) (CA INDEX NAME) CN

RN 53554-56-6 HCAPLUS

2-Benzofuranpropanenitrile, .alpha.-[[5-[(3,6-dioxo-1,4-cyclohexadien-1-yl)methyl]-2-hydroxyphenyl]hydrazono]-3-methyl-.beta.-oxo- (9CI) (CA INDEX NAME) CN

=> D L17 ALL HITSTR 1-4

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L17 ANSWER 1 OF 4 CAOLD COPYRIGHT 2000 ACS
    CA64:3398e CAOLD
AN
    neoflavanoid group of natural products - (I) dalbergiones, a class of
ΤI
    quinones
    Eyton, W. B.; Ollis, W. D.; Sutherland, I. O.; Gottlieb, O. R.; Magalhaes,
ΑU
    M. T.; Jackman, L. M.
   14753-79-8 20058-43-9 28396-75-0 29644-99-3 93434-40-3
ΙT
    94538-07-5 94968-40-8 95280-47-0 95941-64-3
TT 93434-40-3
    93434-40-3 CAOLD
RN
CN p-Benzoquinone, 2-(o-ethylbenzyl)-5-methoxy- (7CI) (CA INDEX NAME)
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L17 ANSWER 2 OF 4 CAOLD COPYRIGHT 2000 ACS CA63:3120g CAOLD AN macroreticular redox polymers - (I) hydroquinone-quinone redox polymers ΤI Kun, Kenneth A. ΑU 4021-89-0 4021-90-3 2561-93-5 4021-88-9 ΙT 4021-88-9 IT 4021-88-9 CAOLD 2,5-Cyclohexadiene-1,4-dione, 2-{(4-ethenylphenyl)methyl}- (9CI) (CA CN INDEX NAME)

L17 ANSWER 3 OF 4 CAOLD COPYRIGHT 2000 ACS CA57:3343c CAOLD synthesis and oxidn.-redn. behavior of monodisperse hydroquinone-phenol-ΤI HCHO condensates Manecke, Georg; Foerster, H. J. 1706-73-6 17228-80-7 20738-85-6 89640-21-1 91719-33-4 700-13-0 91903-05-8 92106-56-4 92165-67-8 93018-48-5 95429-94-0 **95703-35-8** 95814-20-3 95815-81-9 96579-37-2 96707-83-4 97154-94-4 97434-16-7 97615-45-7 98270-74-7 IT 95703-35-8 96707-83-4 95703-35-8 CAOLD RN p-Benzoquinone, ((2-hydroxy-5-methyl-m-phenylene)dimethylene|bis- (7CI) (CA INDEX NAME)

RN 96707-83-4 CAOLD

CN p-Benzoquinone, 2,2'-[(2-hydroxy-5-methyl-m-phenylene)dimethylene]bis[3,5-dimethyl- (7CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Me} \\ \text{O} \\ \text{OH} \end{array} \begin{array}{c} \text{OH} \\ \text{OH} \end{array} \begin{array}{c} \text{OH} \\ \text{OH} \end{array}$$

L17 ANSWER 4 OF 4 CAOLD COPYRIGHT 2000 ACS

AN CA55:2165h CAOLD

 ${\tt TI}$ lesser role of quinone methides in curing and discoloring reaction of phenolic resins

AU Nakamura, Yoshiro

IT 809-73-4 4397-13-1 4397-14-2 4752-75-4 6538-35-8 14010-03-8 101594-98-3 115605-58-8 115606-15-0 116151-62-3 116152-65-9 116438-19-8 116438-39-2

IT 101594-98-3

RN 101594-98-3 CAOLD

CN p-Benzoquinone, 2-(4-hydroxy-3,5-dimethylbenzyl)-3,5-dimethyl- (6CI) (CA INDEX NAME)

=> D L21 1

L21 ANSWER 1 OF 31 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

7726283 Beilstein Beilstein Reg. No. (BRN):

Molecular Formula (MF): C22 H26 O7

Synonym (SY): tert-butyl 4-(5,6-dimethoxy-3-methyl-1,4-

benzoquinon-2-ylmethyl)phenoxyacetate

<4-(4,5-dimethoxy-2-methyl-3,6-dioxo-cyclohexa-1,4-Autonom Name (AUN):

dienylmethyl)-phenoxy>-acetic acid tert-butyl ester

Beilstein Reference (SO): 6-08

Formula Weight (FW): Lawson Number (LN): 402.44

10094; 1771; 318; 289

Ring System Data:

Number of Rings. (CNR): 2 Ring Systems (CNRS): 2 Diff. Ring Systems (CNDRS): 2 Ring Heteros (CNRH): 0 Acyclic Heteros (CNAH): 7

Beilstein Ring (BRIX)	1	(RF)	_	i	BRIX Count
6.1.0-0.0-3.1 6.1.0-0.0-2.3	i	C6 C6		 	1 1

Preparation:

PRE

BRN=7724250 tert-butyl 4-(2-hydroxy-3,4-dimethoxy-6-Start:

methylbenzyl)phenoxyacetate

Reag: salcomine, 02 Time: 12 hour(s) Yield: 67.50 %

Solv: dimethylformamide

Ambient Temperature

Reference(s):

1. Suzuki, Kenji; Tatsuoka, Toshio; Ishihara, Takafumi; Ogino, Ryoko; Miyazaki, Tomoko; et al., Chem. Pharm. Bull., 45 <1997> 4, 668-674, LA:

EN, CODEN: CPBTAL

=> D L24 1

L24 ANSWER 1 OF 29 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

7551267 Beilstein Beilstein Reg. No. (BRN):

Molecular Formula (MF): C24 H30 N2 O3

2,3,5-trimethyl-6-(3-<3-(4-methyl-piperazin-1-yl)-3-Autonom Name (AUN):

oxo-propyl>-benzyl)-<1,4>benzoquinone

Beilstein Reference (SO): 6-23

SEARCHED BY SUSAN HANLEY 305-4053

Formula Weight (FW): 394.51

Lawson Number (LN): 28000; 13148; 2817

Ring System Data:

Number of Rings (CNR): 3
Ring Systems (CNRS): 3
Diff. Ring Systems (CNDRS): 3
Ring Heteros (CNRH): 2
Acyclic Heteros (CNAH): 3

(BRIX)	dex Ring System Fo	Count
6.1.0-0.0-2.3 6.1.0-0.0-3.1 6.1.0-2.2-0.0	C6 C6 C4N2	1

=> D PRE

L24 ANSWER 1 OF 29 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Preparation:

PRE

Start: BRN=7543248 3-<3-<(3,5,6-trimethyl-1,4-benzoquinon-2-

yl)methyl>phenyl>propionic acid, BRN=102724 1-methyl-piperazine

Reag: DMAP Yield: 55.00 % Solv: CH2C12 Reference(s):

 Suzuki, Kenji; Tatsuoka, Toshio; Murakami, Tomiko; Ishihara, Takafumi; Aisaka, Kazuo, Chem. Pharm. Bull., 44 <1996> 1, 139-144, LA: EN, CODEN:

CPBTAL

=> D L28 1

L28 ANSWER 1 OF 20 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 6975857 Beilstein

Molecular Formula (MF): C15 H12 O5

Autonom Name (AUN): 2-(2-hydroxy-6-methoxy-3-oxo-cyclohepta-1,4,6-

trienylmethyl)-<1,4>benzoquinone

Beilstein Reference (SO): 6-08 Formula Weight (FW): 272.26 Lawson Number (LN): 10113; 289

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 2
Diff. Ring Systems (CNDRS): 2
Ring Heteros (CNRH): 0
Acyclic Heteros (CNAH): 5

Beilstein Ring (BRIX)	į	(RF)	-	i	BRIX Count
7.1.0-0.0-3.2 6.1.0-0.0-2.3	i	с7 С6		 i	1 1

Preparation:

PRE

Start: BRN=6977192 3-(2,5-dihydroxybenzyl)-5-methoxytropolone

Reag: DDQ
Time: 2 hour(s)
Yield: 56.00 %
Solv: acetone
Ambient Temperature

Reference(s):

Mori, Akira; Goto, Yasutomo; Takeshita, Hitoshi, Bull.Chem.Soc.Jpn., 60
 1987> 7, 2497-2502, LA: EN, CODEN: BCSJA8

=> D L32

L32 ANSWER 1 OF 19 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 6504706 Beilstein

Molecular Formula (MF): C15 H14 O2

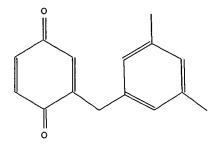
Autonom Name (AUN): 2-(3,5-dimethyl-benzyl)-<1,4>benzoquinone

Beilstein Reference (SO): 6-07
Formula Weight (FW): 226.27
Lawson Number (LN): 8013

Ring System Data:

Number of Rings (CNR): Ring Systems (CNRS): Diff. Ring Systems (CNDRS): 2 Ring Heteros (CNRH): Acyclic Heteros (CNAH): 2

Beilstein Ring Index (BRIX)	(RF)	Count
6.1.0-0.0-2.3	C6	1
6.1.0-0.0-3.1	C6	1



Preparation:

PRF.

Start: BRN=773967 <1,4>benzoquinone, BRN=906806 1,3,5-trimethyl-benzene

AgNO3, H2SO4, Na2S2O8 Reag:

Time: 0.5 hour(s) Yield: 70.00 % Solv: H20 60.0 Cel Temp:

ByProd: BRN=2038840 3,5-dimethyl-benzaldehyde \1 percent of Input

1. Citterio, Attilio, Gazz.Chim.Ital., 110 <1980> 4, 253-258, LA: EN, CODEN: GCITA9

=> D L35

L35 ANSWER 1 OF 16 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 6399304 Beilstein

Molecular Formula (MF): C16 H16 O2

2-(2,4,5-trimethylbenzyl)-p-benzoquinone Synonym (SY): 2-(2,4,5-trimethyl-benzyl)-<1,4>benzoquinone Autonom Name (AUN):

Beilstein Reference (SO): 6-07 240.30 Formula Weight (FW): Lawson Number (LN): 8015

Ring System Data:

Number of Rings (CNR): Ring Systems (CNRS): Diff. Ring Systems (CNDRS): 2 Ring Heteros (CNRH): 0 Acyclic Heteros (CNAH):

Beilstein Ring Ind (BRIX)	dex Ring System Formul (RF)	a BRIX Count
6.1.0-0.0-3.1 6.1.0-0.0-2.3	C6 C6	1 1

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Preparation:

PRE

Start: BRN=1903393 1,2,4,5-tetramethyl-benzene, BRN=773967

<1,4>benzoquinone

Reag: 9,10-dicyanoanthracene

Time: 6 hour(s)
Yield: 15.00 %
Solv: acetonitrile

Irradiation
Reference(s):

1. Albini, Angelo; Spreti, Silvia, Z.Naturforsch.B Anorg.Chem.Org.Chem.,

41 <1986> 10, 1286-1292, LA: EN, CODEN: ZNBAD2

=> D L38

L38 ANSWER 1 OF 15 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 4901834 Beilstein

Molecular Formula (MF): C69 H86 N4 O2

Synonym (SY): 5-(4-methylphenyl)-15-<4-<(3,6-dioxo-4-methyl-1,4-

cyclohexadienyl)methyl>phenyl>-2,8,12,18-tetrahexyl-

3,7,13,17-tetramethylporphine

Autonom Name (AUN): 2-methyl-5-<4-(2,8,12,18-tetrahexyl-3,7,13,17-

tetramethyl-15-p-tolyl-porphyrin-5-yl)-benzyl>-

<1,4>benzoquinone

Beilstein Reference (SO): 6-26

General Comments (NTE): Stereo compound
CAS Reg. No. (RN): 138537-03-8
Beilstein Pref. RN (BPR): 138537-03-8
Formula Weight (FW): 1003.46
Lawson Number (LN): 30567

Ring System Data:

Number of Rings (CNR): 8
Ring Systems (CNRS): 4
Diff. Ring Systems (CNDRS): 3
Ring Heteros (CNRH): 4
Acyclic Heteros (CNAH): 2

Beilstein Ring Index (BRIX)	ĺ	(RF)			Í	BRIX Count
=======================================	=+:	=====		*******	+=	
24.5.32-4.1-11.2	- 1	C20N4	1		1	1
6.1.0-0.0-3.1	1	C6			1	2
6.1.0-0.0-2.3	1	C6			1	1

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT * Atom/Bond Notes:

1. CIP Descriptor: Z

Preparation:

PRE

Start: BRN=4901876 C69H88N4O2

Reag: PbO2 Solv: CH2C12 Reference(s):

1. Nagata, Toshi, Bull.Chem.Soc.Jpn., 64 <1991> 10, 3005-3016, LA: EN,

CODEN: BCSJA8

=> D L41

L41 ANSWER 1 OF 7 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 3990587 Beilstein

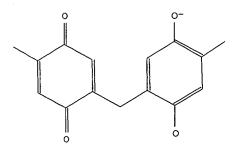
Molecular Formula (MF): C15 H12 O4 Lin. Struct. Formula (LSF): C15H12O4(1-)

Beilstein Reference (SO): 5-08 Formula Weight (FW): 256.26 Lawson Number (LN): 9855

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 2
Diff. Ring Systems (CNDRS): 2
Ring Heteros (CNRH): 0
Acyclic Heteros (CNAH): 4

Beilstein Ring		_	System	Formula	•	BRIX
(BRIX)		(RF)			•	Count
6.1.0-0.0-2.3	•	C6				1
6 1 0-0.0-3.1	1	C6			1	1



Preparation:

PRE

Reference(s):

1. Lindsey et al., J.Chem.Soc., <1962>, 4558,4564, CODEN: JCSOA9

=> D L44

L44 ANSWER 1 OF 5 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

SEARCHED BY SUSAN HANLEY 305-4053

Beilstein Reg. No. (BRN): 3990587 Beilstein

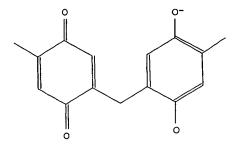
Molecular Formula (MF): C15 H12 O4 Lin. Struct. Formula (LSF): C15H12O4(1-)

Beilstein Reference (SO): 5-08 Formula Weight (FW): 256.26 Lawson Number (LN): 9855

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 2
Diff. Ring Systems (CNDRS): 2
Ring Heteros (CNRH): 0
Acyclic Heteros (CNAH): 4

Beilstein Ring Index (BRIX)	1	(RF)	-	i	BRIX Count
6.1.0-0.0-2.3 6.1.0-0.0-3.1	i	C6 C6	======	 =+= 	



Preparation:

PRE

Reference(s):

1. Lindsey et al., J.Chem.Soc., <1962>, 4558,4564, CODEN: JCSOA9

=> D L45 2

L45 ANSWER 2 OF 5 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 3501679 Beilstein

Molecular Formula (MF): C27 H28 O5

Chemical Name (CN): <1-benzoyloxy-2,3,5,6-tetramethyl-4-oxo-cyclohexa-

2,5-dienylmethyl>-trimethyl-<1,4>benzoquinone
<1-Benzoyloxy-2,3,5,6-tetramethyl-4-oxo-cyclohexa2,5-dienylmethyl>-trimethyl-<1,4>benzochinon

Synonym (SY): 1-Benzoyloxy-4.3'.6'-trioxo-2.3.5.6.2'.4'.5'-

heptamethyl-diphenylmethan-tetrahydrid-(1.4.3'.6')

Autonom Name (AUN): benzoic acid 2,3,5,6-tetramethyl-4-oxo-1-(2,4,5-trimethyl-3,6-dioxo-cyclohexa-1,4-dienylmethyl)-

cyclohexa-2,5-dienyl ester

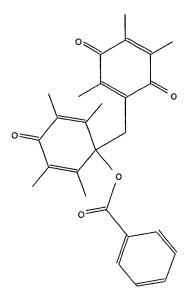
Beilstein Reference (SO): 0-09-00-00160 Formula Weight (FW): 432.52 Lawson Number (LN): 10581; 9857

Ring System Data:

Number of Rings (CNR): 3
Ring Systems (CNRS): 3
Diff. Ring Systems (CNDRS): 2
Ring Heteros (CNRH): 0

Acyclic Heteros (CNAH):

Beilstein Ring I	Index Ring System Fo:	rmula BRIX
(BRIX)	(RF)	Count
	+	+
6.1.0-0.0-2.3	l C6	2
6.1.0-0.0-3.1	l C6	1



Preparation:

PRE

Start: BRN=471389 benzoyl chloride, diduroquinone

Reag: methanolic potash

Reference(s):

1. Ruegheimer; Hankel, Chem.Ber., 29 <1896>, 2183, CODEN: CHBEAM

Note(s):

2. Handbook Data

=> D L49 ALL PRE/FA 1

'PRE' MUST END IN '/Q', '/A', '/L', '/S' OR '/B' The saved name for a query (or structure or screen set) must end with '/Q'. The saved name for an answer set must end with '/A'. The saved name for an L# list must end with '/L'. SDI request names must end with '/S'. To see a list of all saved query, answer set,, and L# list names for this loginid, enter "DISPLAY SAVED" at an arrow prompt (=>). Enter "DISPLAY SAVED/S" to see a list of SDI request names. Enter "DISPLAY SAVED/B" to see a list of BATCH search requests.

=> D L50

L50 ANSWER 1 OF 4 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 3990587 Beilstein

Molecular Formula (MF): C15 H12 O4 Lin. Struct. Formula (LSF): C15H12O4(1-)

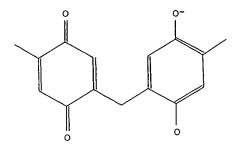
Beilstein Reference (SO): 5-08

Formula Weight (FW): 256.26 Lawson Number (LN): 9855

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 2
Diff. Ring Systems (CNDRS): 2
Ring Heteros (CNRH): 0
Acyclic Heteros (CNAH): 4

Beilstein Ring Index (BRIX)	Ring System Formula (RF)	BRIX Count
	-+	=+======
6.1.0-0.0-2.3	C6	1 1
6.1.0-0.0-3.1	C6	1



Preparation:

PRE

Reference(s):

1. Lindsey et al., J.Chem.Soc., <1962>, 4558,4564, CODEN: JCSOA9

=> D L52

L52 ANSWER 1 OF 3 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 3465517 Beilstein

Molecular Formula (MF): C20 H24 O5

Chemical Name (CN): <6-hydroxy-1,3,4,6-tetramethyl-2,5-dioxo-cyclohex-3-

enylmethyl>-trimethyl-<1,4>benzoquinone

<6-Hydroxy-1, 3, 4, 6-tetramethyl-2, 5-dioxo-cyclohex-3-

enylmethyl>-trimethyl-<1,4>benzochinon

Autonom Name (AUN): 2-(6-hydroxy-1,3,4,6-tetramethyl-2,5-dioxo-cyclohex-

3-enylmethyl)-3,5,6-trimethyl-<1,4>benzoquinone

Beilstein Reference (SO): 3-08-00-04094

Formula Weight (FW): 344.41 Lawson Number (LN): 10098

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 2
Diff. Ring Systems (CNDRS): 2
Ring Heteros (CNRH): 0
Acyclic Heteros (CNAH): 5

Beilstein Ring In	dex Ring System Formu	ıla BRIX
(BRIX)	(RF)	Count
	+-============	====+======
6.1.0-0.0-1.2	C6	1
6.1.0-0.0-2.3	C6	1

```
Preparation:
```

PRE

Start: diduroquinone Reag: FeCl3, ethanol

Reference(s):

1. Smith; Tess; Ullyot, J.Amer.Chem.Soc., 66<1944>1320,1322, CODEN: JACSAT

Note(s):

2. Handbook Data

=> D 2

L52 ANSWER 2 OF 3 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

Beilstein Reg. No. (BRN): 2120022 Beilstein

Molecular Formula (MF): C14 H10 O4

Synonym (SY): 2-(1,4-Benzochinon-2-ylmethyl)-5-methyl-1,4-

benzochinon

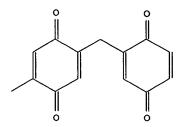
Beilstein Reference (SO): 5-07
CAS Reg. No. (RN): 54771-65-2
Beilstein Pref. RN (BPR): 54771-65-2
Formula Weight (FW): 242.23
Lawson Number (LN): 8429

Ring System Data:

Number of Rings (CNR): 2
Ring Systems (CNRS): 2
Diff. Ring Systems (CNDRS): 1
Ring Heteros (CNRH): 0
Acyclic Heteros (CNAH): 4

 Beilstein Ring Index | Ring System Formula (BRIX)
 | Count

 6.1.0-0.0-2.3
 | C6
 | 2



Preparation:

PRE

Reference(s):

1. Stork; Manecke, Makromol.Chem., 176 <1975>, 97,110, CODEN: MACEAK

=> D 3

L52 ANSWER 3 OF 3 BEILSTEIN COPYRIGHT 2000 BEILSTEIN CD&S

2008976 Beilstein Beilstein Reg. No. (BRN):

C19 H20 O4 Molecular Formula (MF):

3,5,6,3',5',6'-hexamethyl-2,2'-methanediyl-di-Chemical Name (CN):

<1,4>benzoquinone

3,5,6,3',5',6'-Hexamethyl-2,2'-methandiyl-di-

<1,4>benzochinon

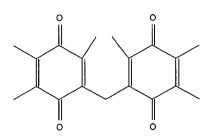
Beilstein Reference (SO): 4-07-00-02874; 5-07

17228-80-7 CAS Reg. No. (RN): 17228-80-7 Beilstein Pref. RN (BPR): Formula Weight (FW): 312.36 8431 Lawson Number (LN):

Ring System Data:

Number of Rings (CNR): 2 Ring Systems (CNRS): Diff. Ring Systems (CNDRS): 1 Ring Heteros (CNRH): 0 Acyclic Heteros (CNAH):

Beilstein Ring (BRIX)	(RF)	-	Count
==========	=====+=====		==+=====
6.1.0-0.0-2.3	I C6		1 2



Preparation:

PRE

Start: BRN=2011494 bis-<2,5-dihydroxy-3,4,6-trimethyl-phenyl>-methane

Reag: FeCl3 Reference(s):

1. Smith et al., J.Amer.Chem.Soc., 72 <1950> 3651, CODEN: JACSAT Note(s): 2. Handbook Data

PRE

Reference(s):

1. Hunt et al., J.Chem.Soc.B, <1967>, 791,793,795, CODEN: JCSPAC